

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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1 (currently amended) A method of correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising the acts of:

- a) determining a direction of the abrupt intensity gradient of RGB data;
- b) ~~determining~~ selecting a set of orientation-sensitive correction coefficients based upon the direction from predetermined sets of the correction coefficients; and
- c) correcting the data ~~using the coefficients~~ based upon the selected set of the correction coefficients to perform a sum of products operation on the RGB data.

2 (original) The method of correcting data according to claim 1 wherein the abrupt intensity gradient is stripes.

3 (original) The method of correcting data according to claim 2 wherein the direction of the stripes is horizontal.

4 (original) The method of correcting data according to claim 2 wherein the direction of the stripes is vertical.

5 (original) The method of correcting data according to claim 1 wherein the sampled areas are covered by a planar array of color area image sensors.

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Response to Office Action of September 15, 2003

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6 (original) The method of correcting data according to claim 1 wherein the color area image sensors generate primary colors.

7 (original) The method of correcting data according to claim 6 wherein for each of the primary colors, the set of correction coefficients is selected based upon the direction of the abrupt intensity gradient.

8 (original) The method of correcting data according to claim 7 wherein the direction includes a vertical type and a horizontal type.

9 (original) The method of correcting data according to claim 8 wherein the set of correction coefficients is selected additionally based upon a pattern of the planar array of the color area image sensors.

10 (original) The method of correcting data according to claim 7 wherein the direction includes a vertical type, a horizontal type and an all-other type.

11 (original) The method of correcting data according to claim 9 wherein the direction is continuous.

12 (currently amended) A system for correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising:

a direction determination unit for determining a direction of the abrupt intensity gradient in RGB data;

a coefficient determination unit connected to the direction determination unit for ~~determining-selecting~~ a set of orientation-sensitive correction coefficients from predetermined sets of the correction coefficients based upon the direction; and

a data correction unit connected to the coefficient determination unit for correcting the data ~~using the coefficients~~ based upon the selected set of the correction coefficients to perform a sum of product operation on the RGB data.

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13 (original) The system for correcting data according to claim 12 wherein the direction determination unit detects the direction of the abrupt intensity gradient including vertical stripes and horizontal stripes.

14 (original) The system for correcting data according to claim 12 further includes a planar array of color area image sensors for generating signals representing primary colors in the sampled areas.

15 (original) The system for correcting data according to claim 14 wherein the coefficient determination unit selects the set of correction coefficients based upon the direction of the abrupt intensity gradient for each of the primary colors.

16 (original) The system for correcting data according to claim 15 wherein the direction determination unit determines a vertical type and a horizontal type.

17 (original) The system for correcting data according to claim 16 wherein the coefficient determination unit selects the set of correction coefficients additionally based upon a pattern of the planar array of the color area image sensors.

18 (original) The system for correcting data according to claim 16 wherein the direction determination unit determines a vertical type, a horizontal type and an all-other type.

19 (original) The system for correcting data according to claim 15 wherein the direction determination unit determines the direction in a continuous angle.

20 (original) A medium containing computer instructions performing a task of correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising the acts of:

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determining a direction of the abrupt intensity gradient including stripes, the sampled areas being covered by a planar array of color area image sensors, the color area image sensors generating primary colors;

determining a set of correction coefficients based upon the direction; and  
correcting the data using the coefficients.

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